

How does our firm use innovative approaches to solve transportation problems?

CAI works on the leading edge of multimodal transportation planning. We work with our clients to develop solutions that go well beyond traditional methods. Such innovations include:

| | |
|---|--|
| <i>Planning for the future:</i> | We write Transportation Master Plans with strategic implementation steps. |
| <i>Maximizing capital dollars:</i> | We incorporate transit, bicycle, and pedestrian facilities into roadway capital projects to minimize costs of high quality facilities. |
| <i>Developing reasonable solutions:</i> | We design community-based solutions that offer competitive travel time to personal automobiles. |
| <i>Creating options:</i> | We work with our clients to integrate land uses with transit stops, bicycle facilities, and sidewalks to increase trips by alternative modes. |
| <i>Create with the community:</i> | We develop alternatives and strategies with the community during all phases of a project to ensure their support during plan adoption and funding. |

How does research play a role in our innovation?

CAI exposes our clients to leading edge research when relevant studies exist. Research plays a role in educating communities on decisions before new projects are constructed. Likewise, case studies from built facilities, present communities with relevant solutions in an organized manner. CAI examines research from many cutting-edge organizations who are working on transportation and land use topics. We focus on research that studies alternative modes of transportation and creating communities with mobility options. The organization listed below periodically offer guidance on such topics:

- Congress on New Urbanism
- University of California at Berkeley- Institute of Transportation Studies
- Urban Transportation Monitor
- America Bikes

What research should be undertaken to promote communities to build transportation facilities that support alternative modes of travel?

1. Pedestrian and Traffic Safety Research

Problem: One of the major barriers to safe pedestrian connections is motor vehicle traffic. We have designed our communities with roadways to accommodate large volumes of traffic for the benefit of high-speed travel. Such roadways require pedestrians to travel across long distances near fast moving traffic with little refuge or protection. Likewise, most of the roadways designed for high-speed travel are near capacity at peak hours and offer fewer opportunities for persons to navigate a crossing.

Available Research: The research available to planners and engineers today is limited. Most of the research in this field tends to focus on taking the pedestrians out of the area with removed sidewalks and overpasses. The available research does not consider land use or transit access, which is critical to creating safe pedestrian environments. Although, many communities have successfully addressed large volumes of traffic and pedestrians, they have not been given the opportunity to document their stories for other communities to use.

Future Research: One of the major opportunities in this field of research is documenting what other communities have learned by trial and error. Because the science of planning for pedestrians is not roadway planning, the same rules of research cannot be applied. We need a document, updated on a consistent basis, or a clearinghouse of research that communities can consult for guidance.



Communities need additional research on creating safe pedestrian facilities along our congested roadways.

